

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01104

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23B 27/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23B, B23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 0047405 A1 (SANDVIK AKTIEBOLAG), 17 August 2000 (17.08.00), figures 1,3, abstract --	1-8
Y	GB 1443743 A (CUTANIT LIMITED), 21 July 1976 (21.07.76), figure 2 --	1-8
Y	US 3229349 A (T.G. LEKSELL), 18 January 1966 (18.01.66), figure 1 --	1-8
Y	EP 0577011 A1 (SUMITOMO ELECTRIC INDUSTRIES, LTD.), 5 January 1994 (05.01.94), figure 1, abstract --	1-8

☒ Further documents are listed in the continuation of Box C.
 ☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

7 November 2003

12-11-2003

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4294566 A (GARY A. BOONE), 13 October 1981 (13.10.81), figure 1, abstract --	1-8
A	US 4297058 A (WILLIAM D. ARMBRUST ET AL), 27 October 1981 (27.10.81), figure 5, abstract --	1-8
A	US 4074949 A (WALTER HOCHMUTH ET AL), 21 February 1978 (21.02.78), figure 5, abstract -- -----	1-8

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 - 8

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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The separate inventions are:

- 1.
2. Claims 1-8 are directed to an indexable
3. cutting insert and its geometric shape.
- 4.
5. Claims 9-10 are directed to a method for
6. manufacturing a cutting insert.

The above groups of inventions do not satisfy the requirements of unity of invention. The groups of inventions are not so linked as to form a single general inventive concept. The "special technical features" in group one relate to an indexable cutting insert and its geometrical shape, while the "special technical features" of group two relate to a method for manufacturing a cutting insert. There is no technical relationship among these inventions involving one or more of the same or corresponding technical features.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0047405 A1	17/08/00	AU 750407 B AU 3856799 A CA 2325523 A EP 1121366 A EP 1152892 A IL 138627 D JP 2002510698 T JP 2002536197 T SE 517274 C SE 9900528 A	18/07/02 25/10/99 14/10/99 08/08/01 14/11/01 00/00/00 09/04/02 29/10/02 21/05/02 16/08/00
GB 1443743 A	21/07/76	AT 319009 B CH 558693 A DE 2333459 A FR 2194509 A,B	25/11/74 14/02/75 14/02/74 01/03/74
US 3229349 A	18/01/66	CH 392202 A DE 1284813 B FR 1285617 A GB 940460 A	15/05/65 05/12/68 23/02/62 30/10/63
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US 4294566 A	13/10/81	AT 11496 T CA 1149141 A DE 3168602 D EP 0042237 A,B SE 0042237 T3 JP 57027603 A	15/02/85 05/07/83 00/00/00 23/12/81 15/02/82
US 4297058 A	27/10/81	CA 1135948 A	23/11/82
US 4074949 A	21/02/78	NONE	